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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CEMENT/2015-16 Date: 25.11.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, SWD, Dasarahalli Zone, BBMP, Bangalore.
***AGENCY**	:	**Mr. B.N. Somashekar,** No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.
***NAME OF THE WORK**	:	Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.
***REFERENCE**	:	AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	23.11.2015
PERIOD OF TESTING	:	23.11.2015 to 25.11.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/SAND-Gradation/2015-16 : 25.11.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

*** Name of Work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 23.11.2015

Date of Testing : 25.11.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.54	90-100	90-100	90-100	95-100
2.36	73.22	60-95	75-100	85-100	95-100
1.18	50.87	30-70	55-90	75-100	90-100
600 Micron	24.59	15-34	35-59	60-79	80-100
300 Micron	14.36	5-20	8-30	12-40	15-50
150 Micron	7.78	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/AGG/GR/2015-16 : 25.11.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

*** Name of Work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 23.11.2015

Date of Testing : 25.11.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.35	95-100	85-100
20	40.55	30-70	0-20
10	15.10	10-35	0-5
4.75	2.80	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/BNS/STEEL/2015-16 25.11.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer**, SWD, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Mr. B.N. Somashekar,** No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.
Name of the work	:	Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.
Reference	:	AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015
Date of Test	:	25.11.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/BNS/STEEL/2015-16 25.11.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer**, SWD, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Mr. B.N. Somashekar,** No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.
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Reference	:	AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015
Date of Test	:	25.11.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.45	O.K	O.K

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Agency	:	**Mr. B.N. Somashekar,** No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.
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Date of Test	:	25.11.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	520	563	13.60	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

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Reference	:	AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015
Date of Test	:	25.11.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	20	2.47	522	566	13.75	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CUBE/2015-16 10.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

***Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

***Name of the work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

***Sample ID** : RCC Raft Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{35}

Compressive Strength as on : 7th day

Sample Received on : 03.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.12.2015	10.12.2015	8.156	585.4	26.02
2	03.12.2015	10.12.2015	8.247	596.7	26.52
3	03.12.2015	10.12.2015	8.352	608.2	27.03

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CUBE/2015-16 15.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

***Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

***Name of the work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

***Sample ID** : RCC Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{35}

Compressive Strength as on : 7th day

Sample Received on : 08.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.12.2015	15.12.2015	8.247	573.6	25.49
2	08.12.2015	15.12.2015	8.362	587.3	26.10
3	08.12.2015	15.12.2015	8.475	599.4	26.64

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CUBE/2015-16 17.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

***Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

***Name of the work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

***Sample ID** : RCC Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{35}

Compressive Strength as on : 7th day

Sample Received on : 10.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.12.2015	17.12.2015	8.152	582.5	25.89
2	10.12.2015	17.12.2015	8.367	593.8	26.39
3	10.12.2015	17.12.2015	8.263	608.6	27.05

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CUBE/2015-16 21.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

***Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

***Name of the work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

***Sample ID** : RCC Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{35}

Compressive Strength as on : 7th day

Sample Received on : 14.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2015	21.12.2015	8.364	608.7	27.05
2	14.12.2015	21.12.2015	8.275	594.8	26.44
3	14.12.2015	21.12.2015	8.452	618.3	27.48

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CUBE/2015-16 09.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

***Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

***Name of the work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

***Sample ID** : RCC U-Shape Drain Raft Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 7th day

Sample Received on : 02.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.12.2015	09.12.2015	8.367	448.3	19.92
2	02.12.2015	09.12.2015	8.152	423.5	18.82
3	02.12.2015	09.12.2015	8.249	437.8	19.46

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Job No.: CTCE/BBMP/W.No.12/BNS/CSR-11/1001g/CUBE/2015-16 06.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** SWD, Dasarahalli Zone, BBMP, Bangalore.

***Agency** : **Mr. B.N. Somashekar,**
No.134/1, 2nd Main Road, Sheshadripuram Bangalore – 20.

***Name of the work** : Construction of RCC box drain across Storm Water Drain AT-WY-MAC junction along Abbigere main road and SSM wall along SWD infront Divya Engineer works in Ward No.12, Dasarahalli Zone, BBMP, Bangalore.

Reference : AEE/SWD(DHZ)/PR/19/A/2015-16 Dated: 23.11.2015

***Sample ID** : RCC U-Shape Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 7th day

Sample Received on : 09.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.12.2015	06.12.2015	8.196	415.2	18.45
2	09.12.2015	06.12.2015	8.257	426.3	18.95
3	09.12.2015	06.12.2015	8.342	438.8	19.50

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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